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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,991	07/10/2003	Cheol-Jin Park	Q75619	1227
23373	7590 01/04/200	i	EXAMINER	
	MION, PLLC	NGUYEN, TUYEN T		
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			ART UNIT	PAPER NUMBER
WASHINGT	ON, DC 20037	2832		
			DATE MAILED: 01/04/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/615,991	PARK, CHEOL-JIN		
		Examiner	Art Unit		
		TUYEN T NGUYEN	2832		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period or tre to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 19 C	October 2004.			
2a)⊠	This action is FINAL . 2b) This	s action is non-final.			
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Dispositi	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-4 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.				
Applicati	ion Papers				
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
-1 11)==-	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	*			
Priority (under 35 U.S.C. § 119				
12)⊠ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	ts have been received. Is have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachmen	ot(s) ce of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)		
2) Notice 3) Information	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail Da			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicant should clarify what is intended by a radially inner face of the receiving hole and a radially outer face of the bobbin adjacent to the radially inner face of the receiving hole are perpendicular to the upper surface of the printed circuit board throughout a total thickness of the circuit board

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35-U.S.C. 102-that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Kataja [US 2002/0057029 A1].

Kataja discloses an apparatus for fixing a bobbin [1, 5] to a printed circuit board [6] for use in a transformer, around an upper portion of the bobbin being around an upper portion of the bobbin being wound a coil, a lower portion of the bobbin being provided with a plurality of pins [2] connected to an end of the coil and connected to the printed circuit board of an electronic product, the apparatus for fixing the bobbin to the printed circuit board comprising:

a receiving hole [figures 1 and 3-4] formed in the printed circuit board, a size of which is minutely larger than that of the bobbin to hold the bobbin; and

a plurality of horizontal support portions [figure 3] formed at the pins of the bobbin in parallel relation to an upper surface of the printed circuit board, for allowing the bobbin to be supported on the upper surface of the printed circuit board when the bobbin is inserted into the receiving hole.

Regarding claim 2, Kataja further discloses a fixing portion [4] extending from the horizontal support portion in a perpendicular relation to the upper surface of the printed circuit board so that the pins are inserted into an opening formed in the printed circuit board.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 3, as best understood in view of the rejection under 35 USC 112 second paragraph, is rejected under 35 U.S.C. 103(a) as being unpatentable over Kataja in view of Chieng-heng [US 5,165,056].

Kataja discloses the instant claimed invention except for a radially inner face of the receiving hole and a radially outer face of the bobbin adjacent to the radially inner face of the receiving hole are perpendicular to the upper surface of the printed circuit board throughout a total thickness of the circuit board

Chieng-heng discloses an apparatus for fixing a bobbin [figure 3] to a printed circuit board [3] for use in a transformer, around an upper portion of the bobbin being around an upper portion of the bobbin being wound a coil, a lower portion of the bobbin being provided with a plurality of pins [2] connected to an end of the coil and connected to the printed circuit board of an electronic product, the apparatus for fixing the bobbin to the printed circuit board comprising:

a receiving hole [31, figure 3] formed in the printed circuit board, a size of which is minutely larger than that of the bobbin to hold the bobbin; and

a plurality of horizontal support portions [22, figure 3] formed at the pins of the bobbin in parallel relation to an upper surface of the printed circuit board, for allowing the bobbin to be supported on the upper surface of the printed circuit board when the bobbin is inserted into the receiving hole.

wherein a radially inner face of the receiving hole and a radially outer face of the bobbin adjacent to the radially inner face of the receiving hole are perpendicular to the upper surface of the printed circuit board throughout a total thickness of the circuit board

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It would have been obvious to one having ordinary skilled in the art at the time the invention was made to bobbin/printed circuit board arrangement of Chieng-heng in Kataja for the purpose of securing the bobbin into hole of the printed circuit board.

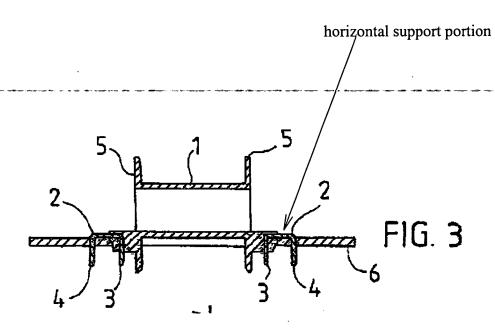
Response to Arguments

Applicant's arguments filed 10/19/2004 have been fully considered but they are not persuasive.

Applicant argues that there is simply no indication in Kataja that its connectors 2 having any support portions comparable to that recited in claim 1.

Examiner disagrees.

Examiner invite application to look at figure 3 below, horizontal support portion of pin [2], resting on the printed circuit board [6] providing the support function.



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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN FN

Tongen T. Nguyen

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